# Jenkins Glossary - 100 Q&A Simplified

## Jenkins

Open-source automation tool for CI/CD.

## Continuous Integration (CI)

Merging code often and testing quickly.

## Continuous Delivery (CD)

Automatic deployment after tests.

## Job

Task Jenkins runs (build, test, deploy).

## Job Types

Freestyle, Pipeline, Multibranch, Maven.

## Pipeline

Script with steps for CI/CD.

## Scripted vs Declarative Pipeline

Scripted = Groovy code. Declarative = simpler syntax.

## Jenkinsfile

Text file with pipeline code.

## Default Port

8080.

## Plugins

Add new features to Jenkins.

## Node

Machine that runs jobs.

## Master

Main Jenkins server that controls jobs.

## Agent

Worker that runs jobs from master.

## Workspace

Folder where builds happen.

## Build Trigger

How jobs start (polling, webhook, schedule).

## Webhook

Git repo notifies Jenkins on push.

## SCM Polling

Jenkins checks repo changes regularly.

## Authentication

Verify user identity.

## Authorization

Set user permissions.

## Matrix Security

Detailed permission system.

## Backup

Copy $JENKINS\_HOME folder.

## Restore

Place backup into Jenkins install.

## Email Notifications

Send build status emails with plugin.

## Integrations

Git, Maven, Docker, Slack, etc.

## Cron Syntax

Schedule format e.g. H/15 \* \* \* \*.

## Blue Ocean

Modern UI for pipelines.

## Archive Artifacts

Save build outputs.

## Parameterize Job

Add input values to job.

## Upstream vs Downstream

Upstream runs first, downstream after.

## Parallel Builds

Run multiple jobs/stages at same time.

## Retry

Run failed steps again.

## Timeout

Stop build if takes too long.

## Environment Variables

Variables set for builds.

## Shared Library

Reusable pipeline code stored in repo.

## Abort Build

Stop build with error().

## Input Step

Pause build and ask for approval.

## Shell Command

Run Linux sh or Windows bat.

## Kubernetes

Run Jenkins agents as pods in cluster.

## Monitoring

Use plugins or Prometheus to track Jenkins.

## Clean Workspace

Delete files before build starts.

## Secrets

Stored safely, used with withCredentials().

## Upgrade Jenkins

Install new WAR or update package.

## Logs

Check $JENKINS\_HOME/logs or system logs.

## Restart Jenkins

Use /safeRestart URL.

## Reload Config

Use /reload URL.

## Disable Job

Mark job as disabled in settings.

## Clone Job

Copy an existing job.

## Delete Job

Remove job from Jenkins.

## Build History

List of past builds.

## Concurrent Builds

Can be turned off to avoid conflicts.

## Discard Old Builds

Set build retention policy.

## Folders Plugin

Organize jobs in folders.

## OutOfMemoryError

Fix by increasing JVM memory.

## CSRF Protection

Enable to stop cross-site attacks.

## Audit Logging

Track changes using plugin.

## Proxy

Configure Jenkins to run behind proxy.

## Best Practices

Update, secure, backup, monitor, organize jobs.